

ABSTRACT OF THE DISCLOSURE

A resistor includes a mixture of at least one of a metal conductive oxide and a transition metal material with an insulating oxide. A method for producing such a resistor includes the steps of forming an electrode on one of an alumina substrate, a glass substrate and a glass tube; and flame-spraying a mixture of at least one of a metal conductive oxide and a transition metal material with an insulating oxide, thereby depositing the mixture on the one of the alumina substrate, the glass substrate and the glass tube.